INDEX OF SUBMITTED MEASURED DATA

This exhibit contains the measured data for this equipment as follows:

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EXHIBIT 6A - RF Conducted Power Output Data -- Pursuant 47 CFR 2.1046(a), 2.1033(c)(6), 2.1033(c)(7) and 2.1033(c)(8)

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device (Q100).

At maximum output power setting, Frequency 146 MHz:

Output RF power	27.3	Watts
DC Voltage	13.8	Volts
DC Current	5.135	Amps
RF PA Input Power	1.65	Watts

At minimum output power setting, Frequency 146 MHz:

Output RF power	1.05	Watts
DC Voltage	13.8	Volts
DC Current	1.23	Amps
RF PA Input Power	3.99	milliWatts

At maximum output power setting, Frequency 160 MHz:

Output RF power	27.5	Watts
DC Voltage	13.8	Volts
DC Current	4.740	Amps
RF PA Input Power	2.08	Watts

At minimum output power setting, Frequency 160 MHz:

Output RF power	1.04	Watts
DC Voltage	13.8	Volts
DC Current	1.25	Amps
RF PA Input Power	4.98	milliWatts

At maximum output power setting, Frequency 174 MHz:

Output RF power	27.4	Watts
DC Voltage	13.8	Volts
DC Current	5.214	Amps
RF PA Input Power	1.65	Watts

At minimum output power setting, Frequency 174 MHz:

Output RF power	1.05	Watts
DC Voltage	13.8	Volts
DC Current	1.34	Amps
RF PA Input Power	3.99	milliWatts

EXHIBIT 6B – Transmit Audio Response - Pursuant 47 CFR 2.1047 and 2.1033(c)(13**)**

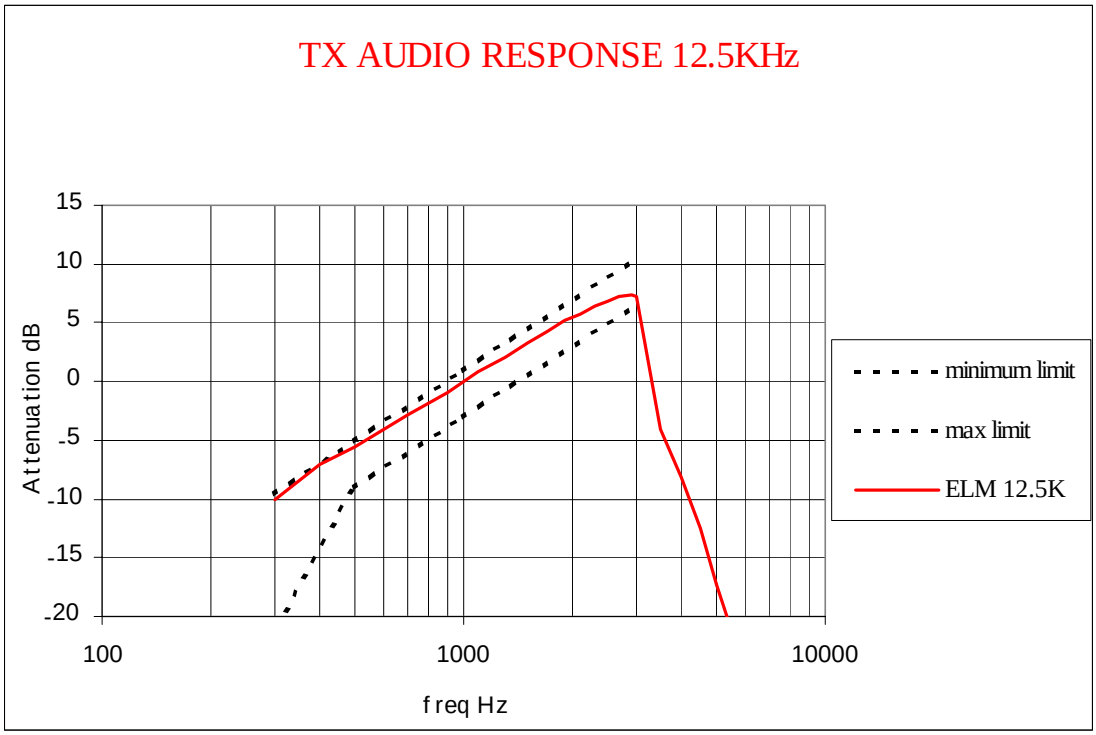

Figure 6B-1: 12.5 KHz Channel Spacing, Transmit Audio Response

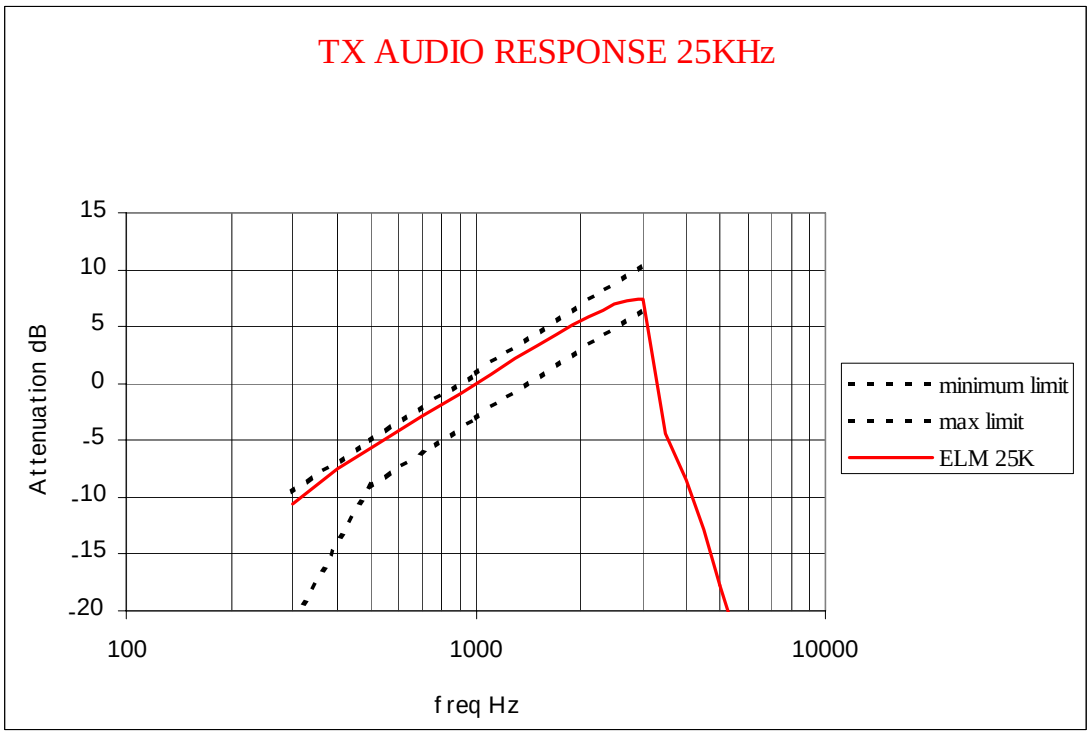

Figure 6B-2: 25 KHz Channel Spacing, Transmit Audio Response

EXHIBIT 6C – Transmit Audio Post Limiter Lowpass Filter Response - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

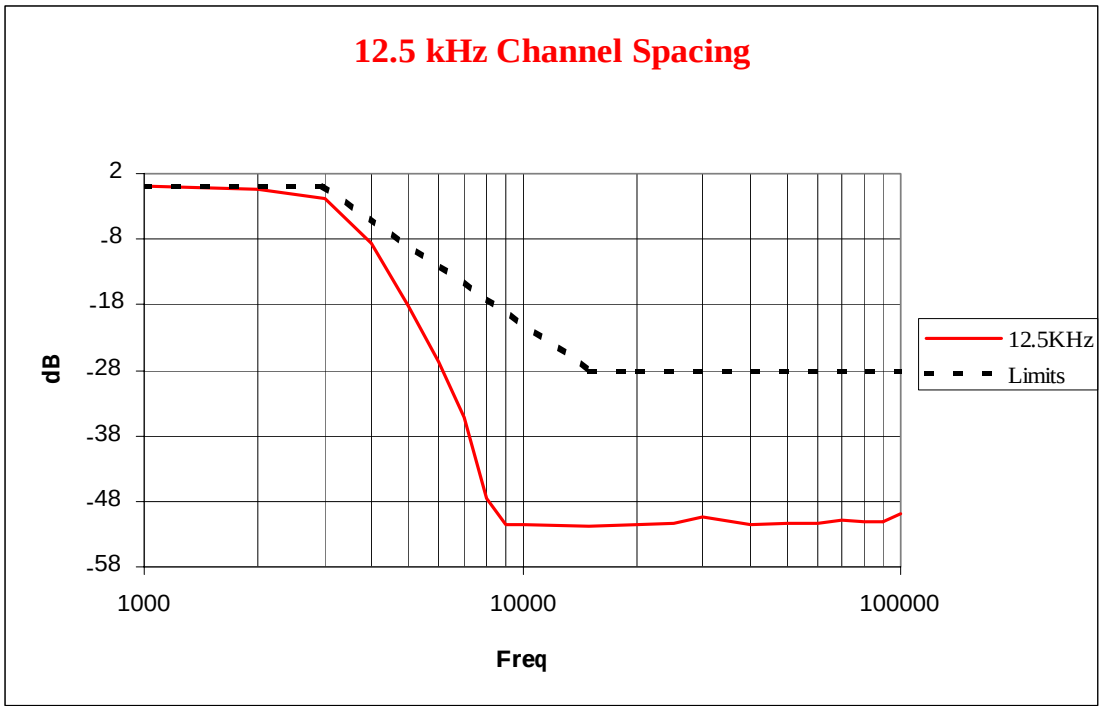

Figure 6C-1: 12.5 KHz Channel Spacing, Transmit Audio Post Limiter Lowpass Filter Response

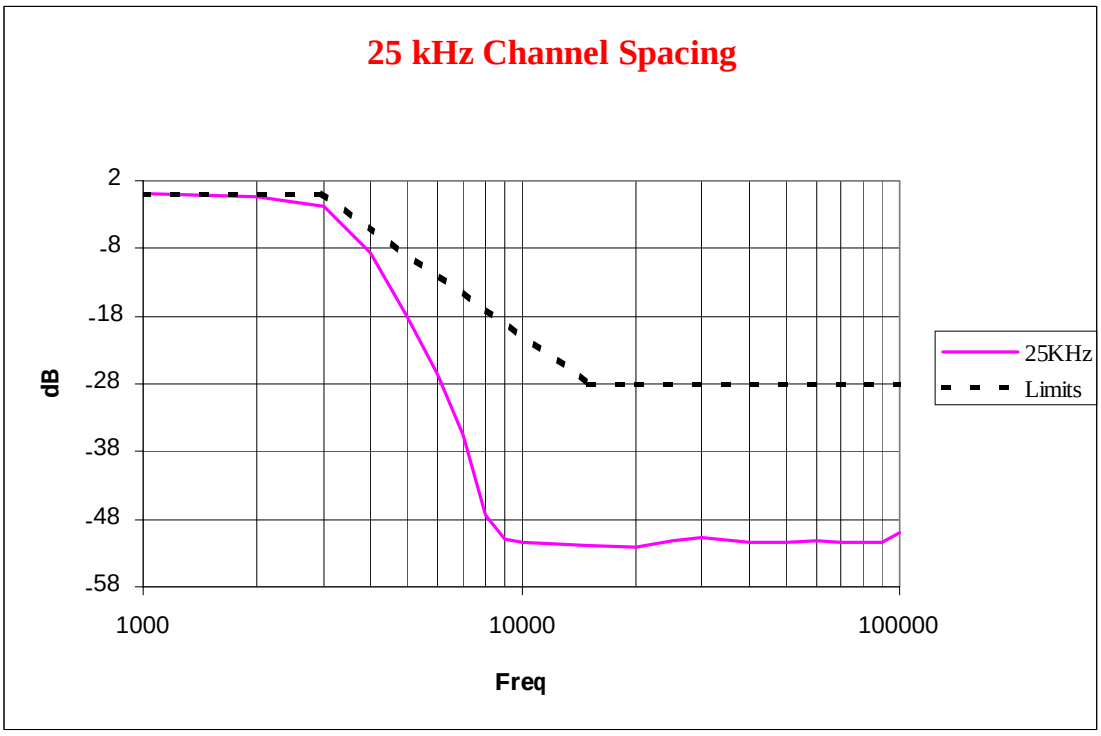

Figure 6C-2: 25 KHz Channel spacing, Transmit Audio Post Limiter Lowpass Filter Response

EXHIBIT 6D – Modulation Limiting Characteristics - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

Figure 6D-1: 12.5 KHz Channel Spacing, Carrier Squelch Mode

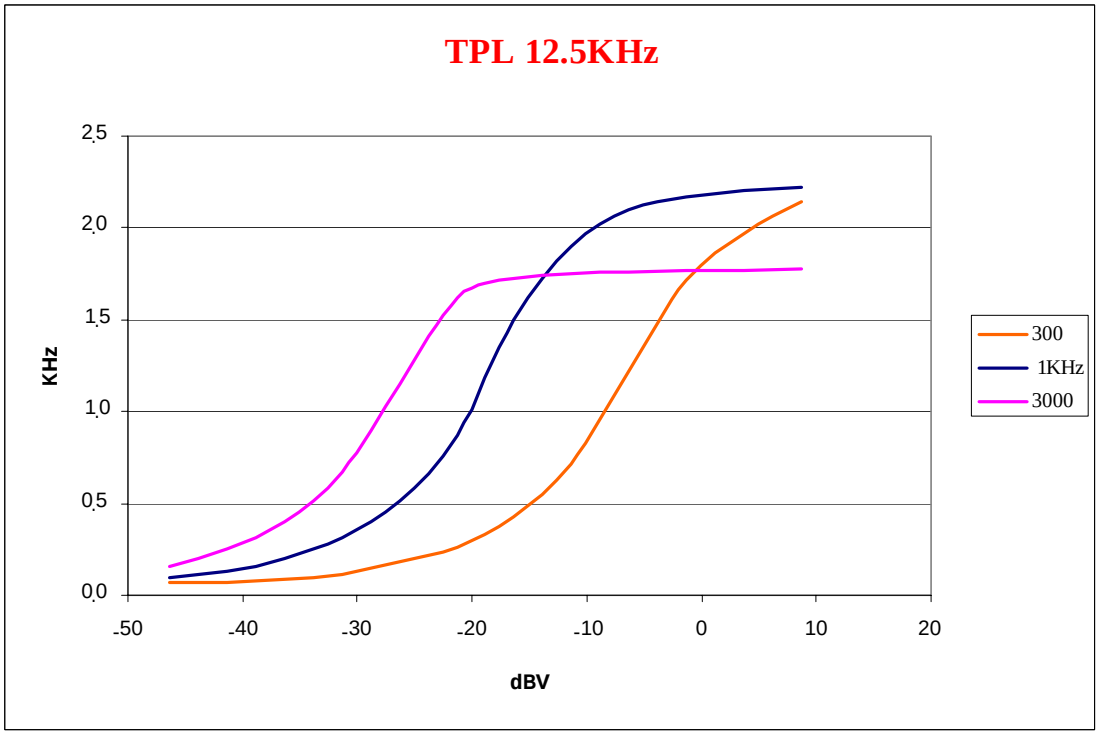

Figure 6D-2: 12.5 KHz Channel Spacing, Tone Private Line (TPL) Mode

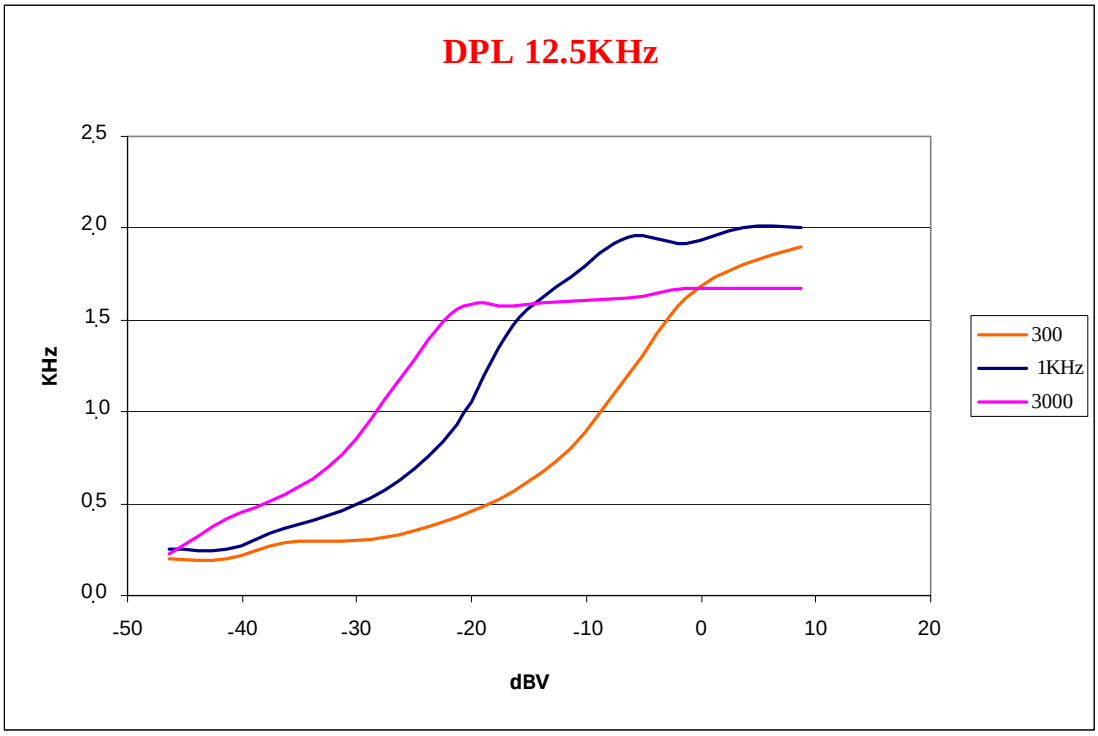

Figure 6D-3: 12.5 KHz Channel Spacing, Digital Private Line (DPL) Mode

Figure 6D-4: 25 KHz Channel Spacing, Carrier Squelch Mode

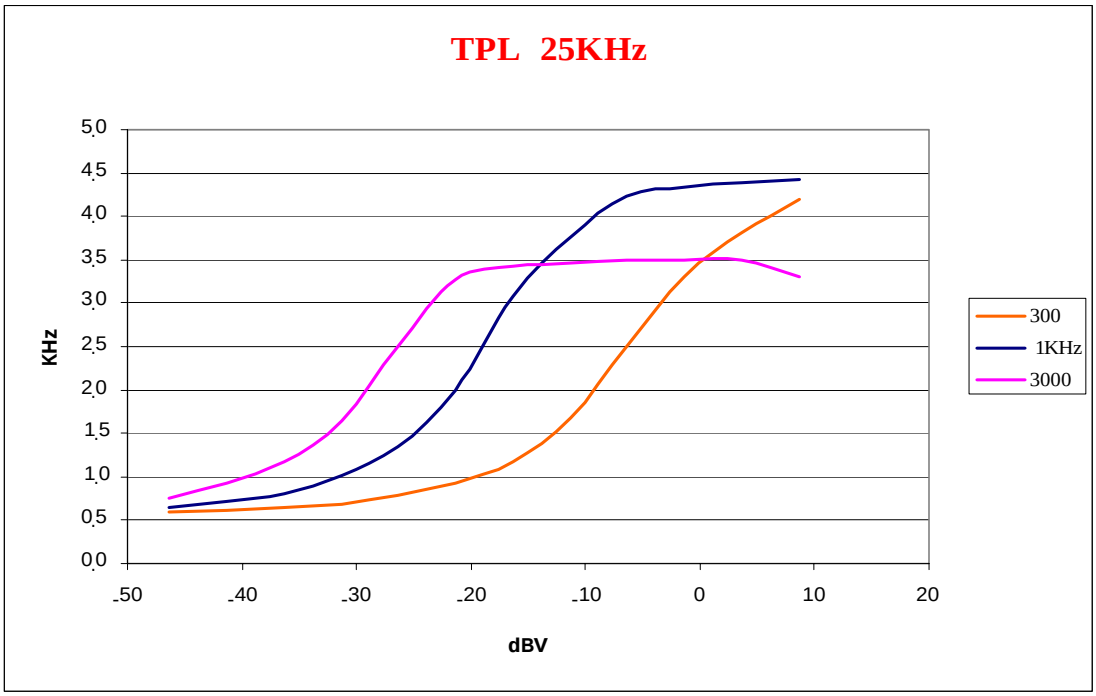

Figure 6D-5: 25 KHz Channel Spacing, Tone Private Line (TPL) Mode

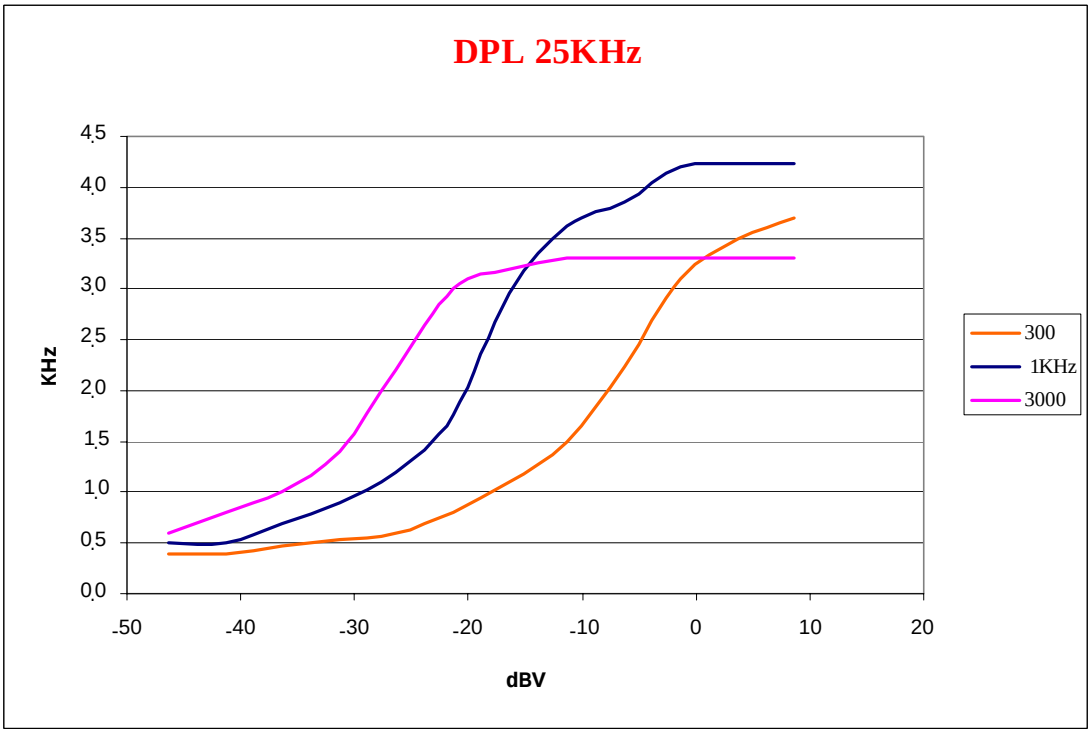

Figure 6D-6: 25 KHz Channel Spacing, Digital Private Line (DPL) Mode

EXHIBIT 6E- Occupied Bandwidth Data -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

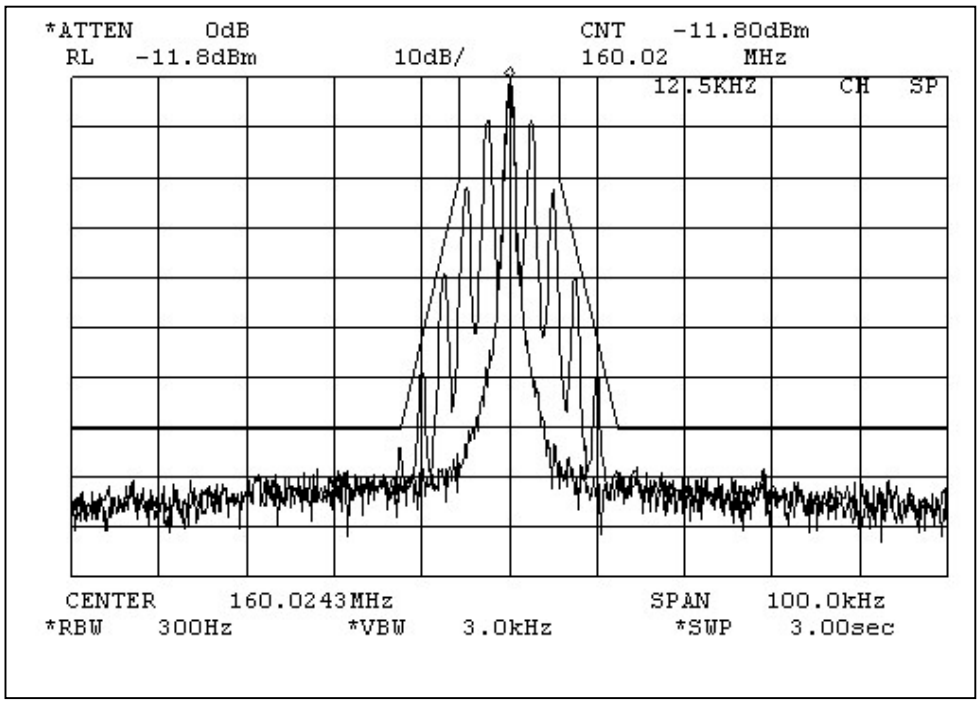

Figure 6E-1: 12.5 KHz Channel Spacing, 2500 Hz Audio Modulation Only

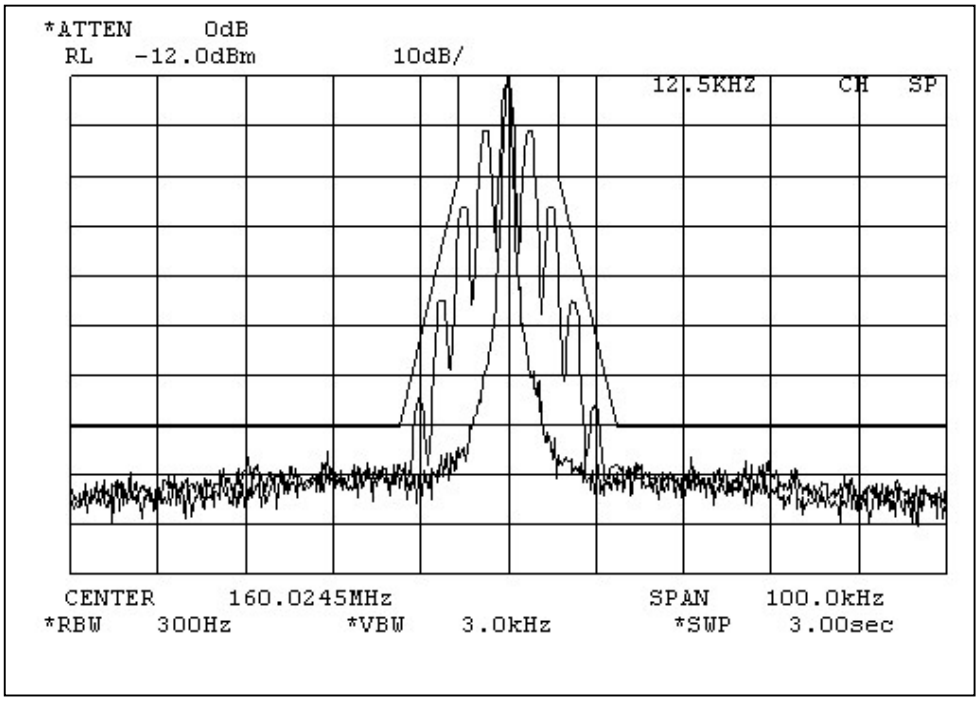

Figure 6E-2: 12.5 KHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation

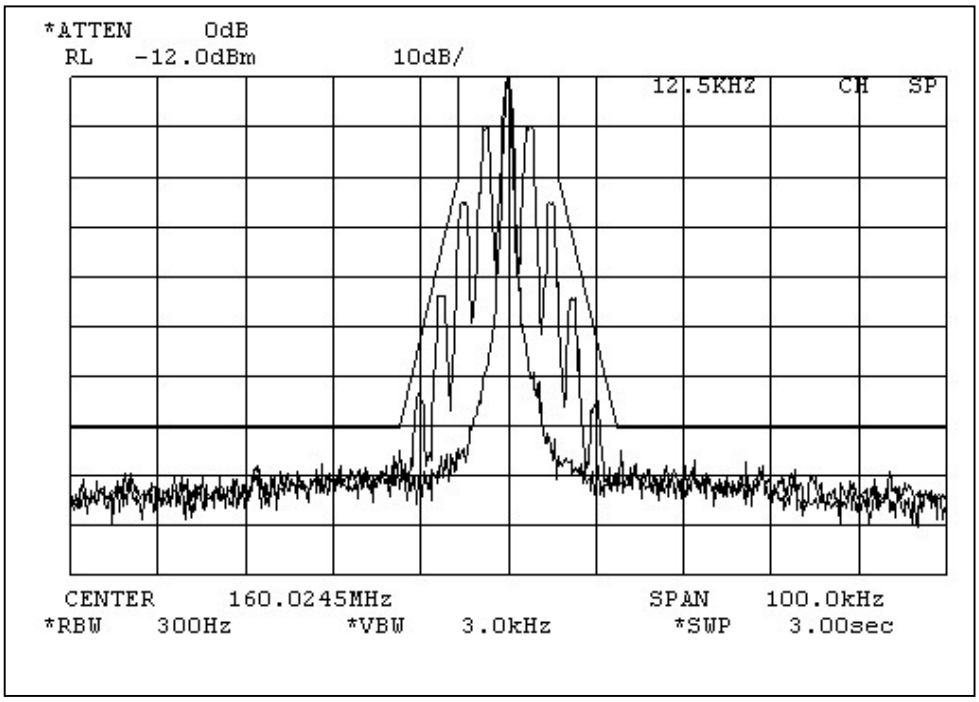

Figure 6E-3: 12.5 KHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation

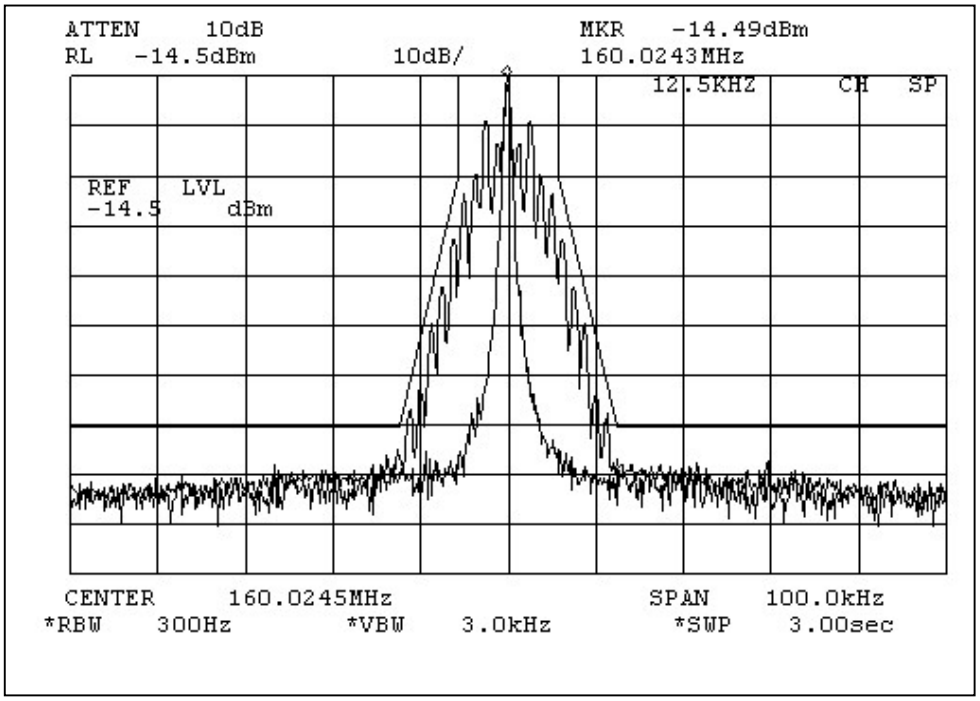

Figure 6E-4: 12.5 KHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only

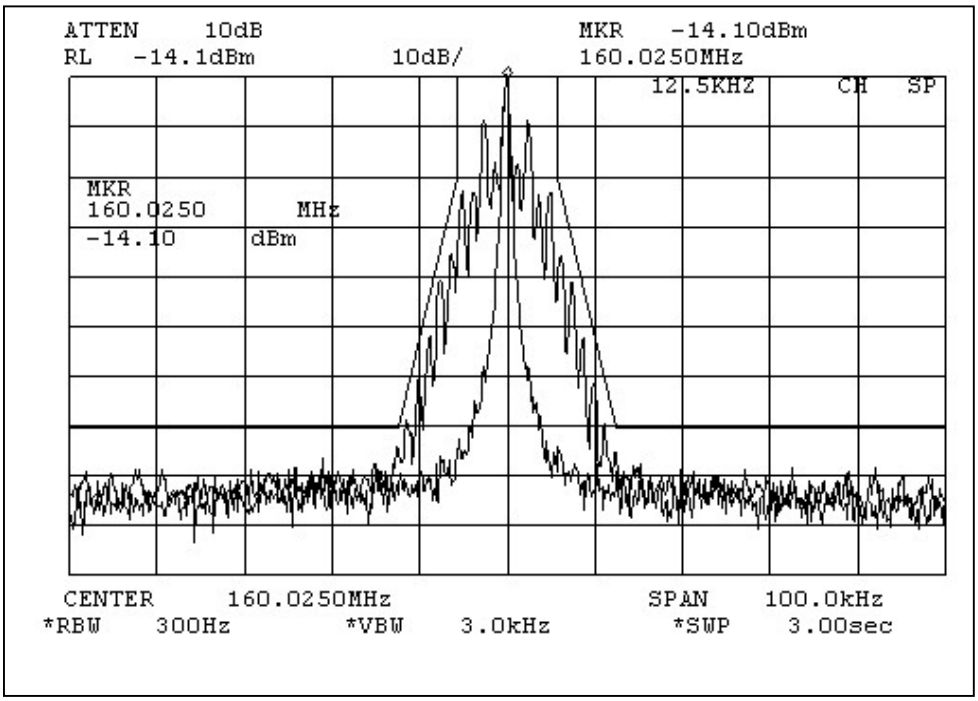

Figure 6E-5: 12.5 KHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation

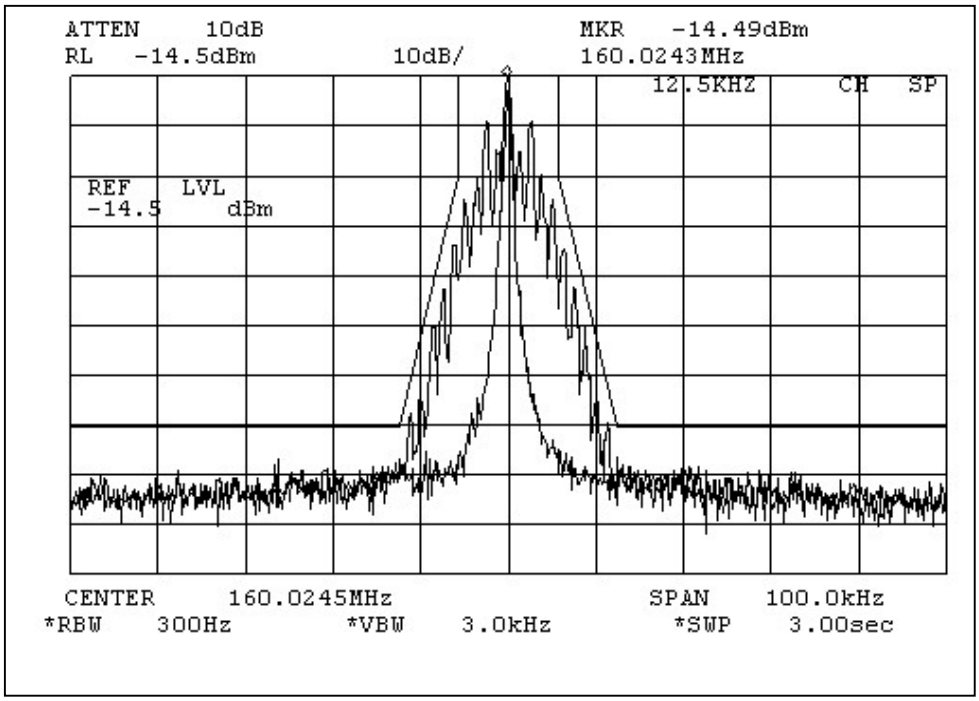

Figure 6E-6: 12.5 KHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation

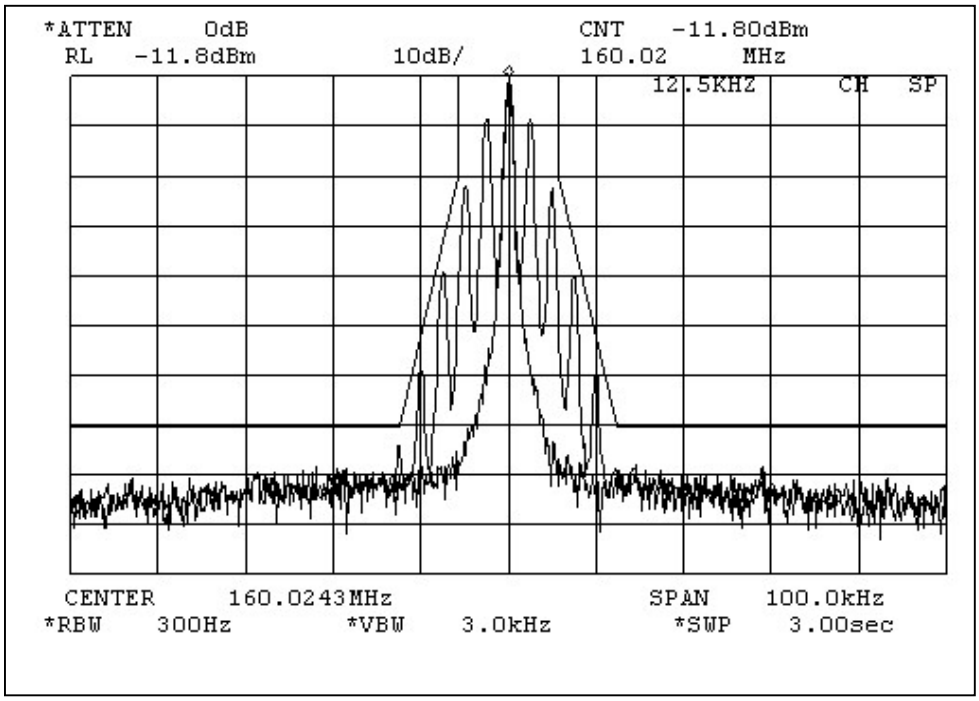

Figure 6E-7: 25 KHz Channel Spacing, 2500 Hz Audio Modulation Only

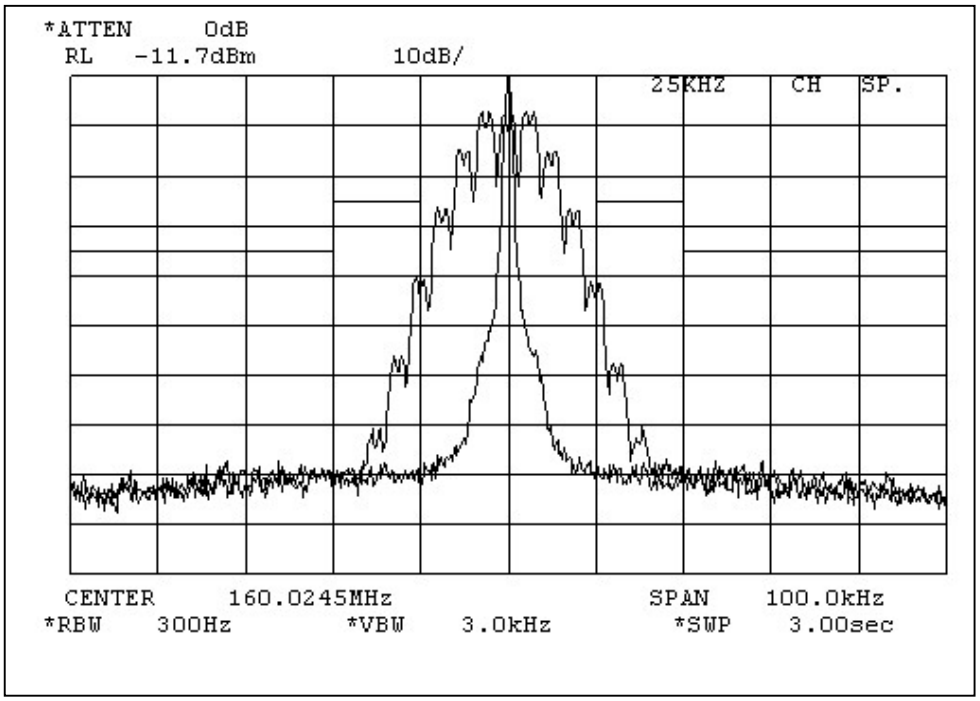

Figure 6E-8: 25 KHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation

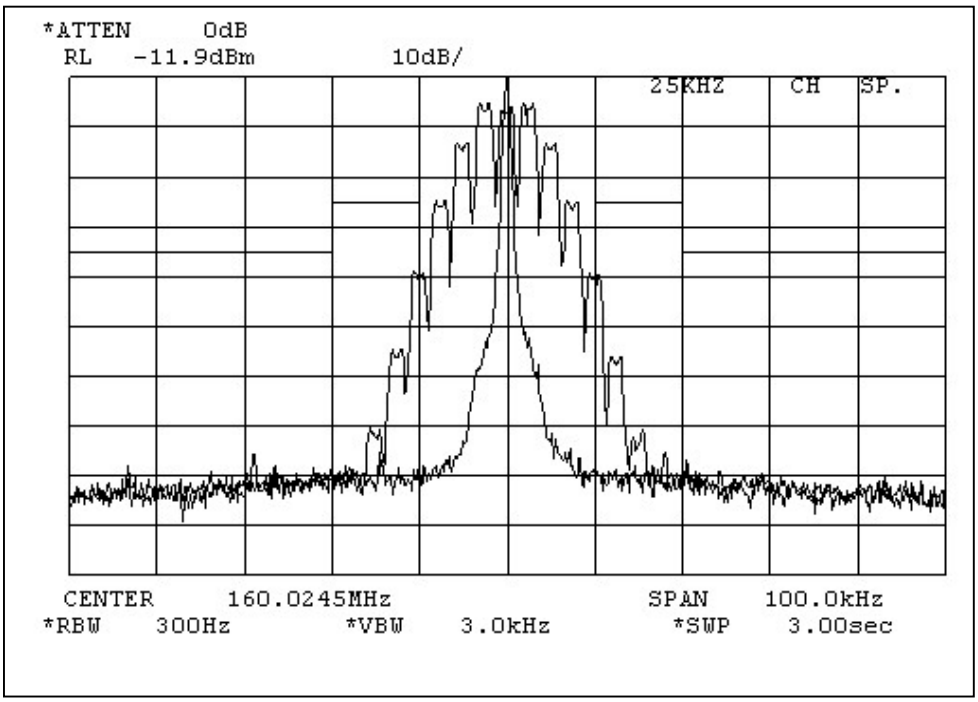

Figure 6E-9: 25 KHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation

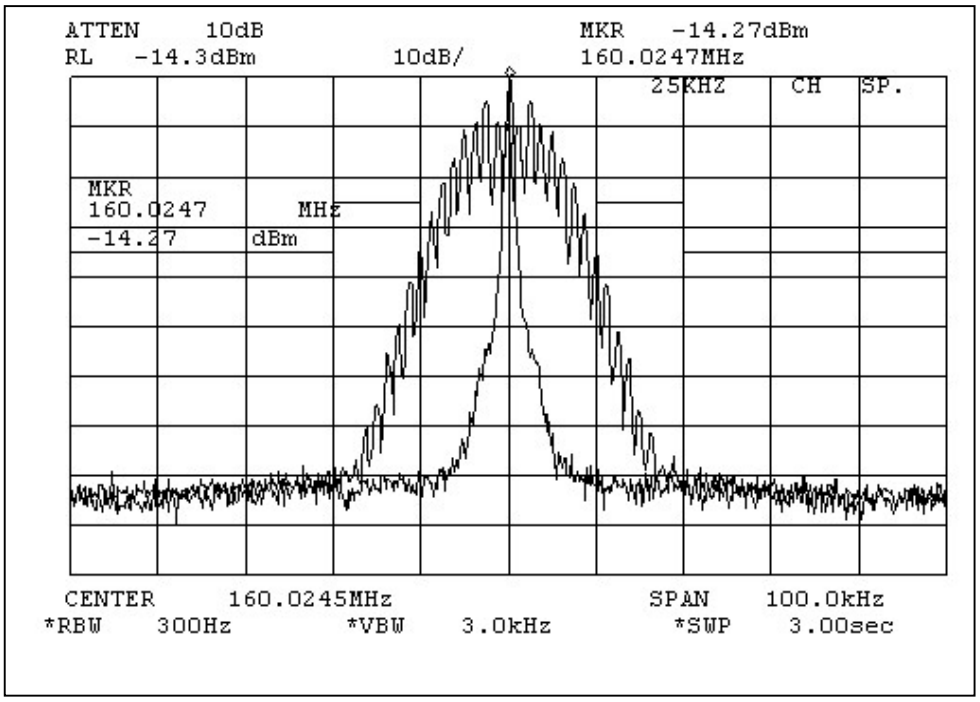

Figure 6E-10: 25 KHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only

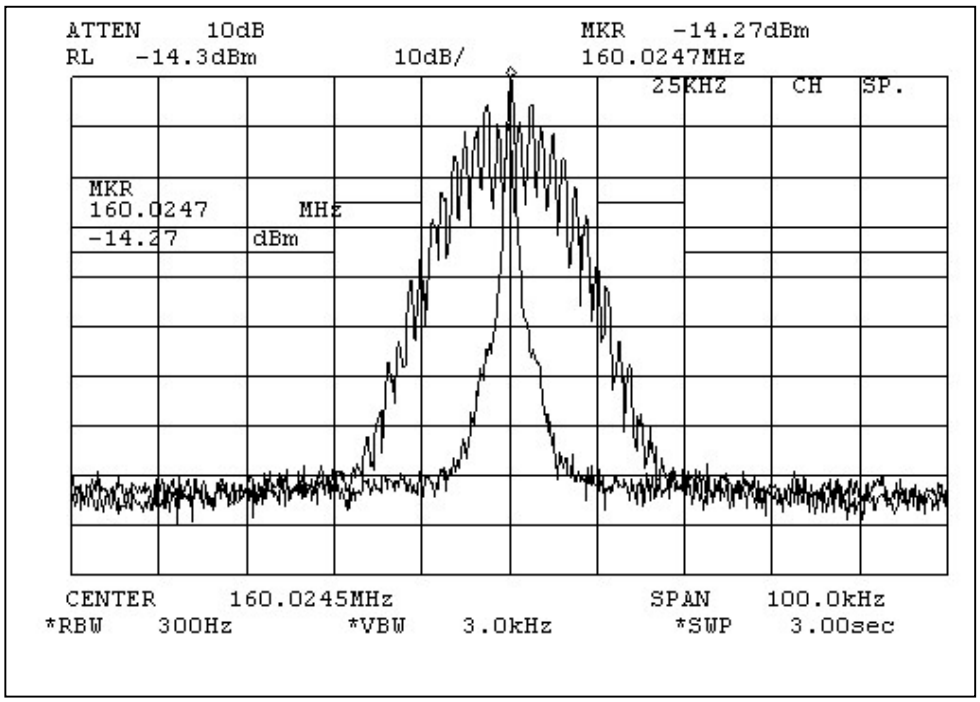

Figure 6E-11: 25 KHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation

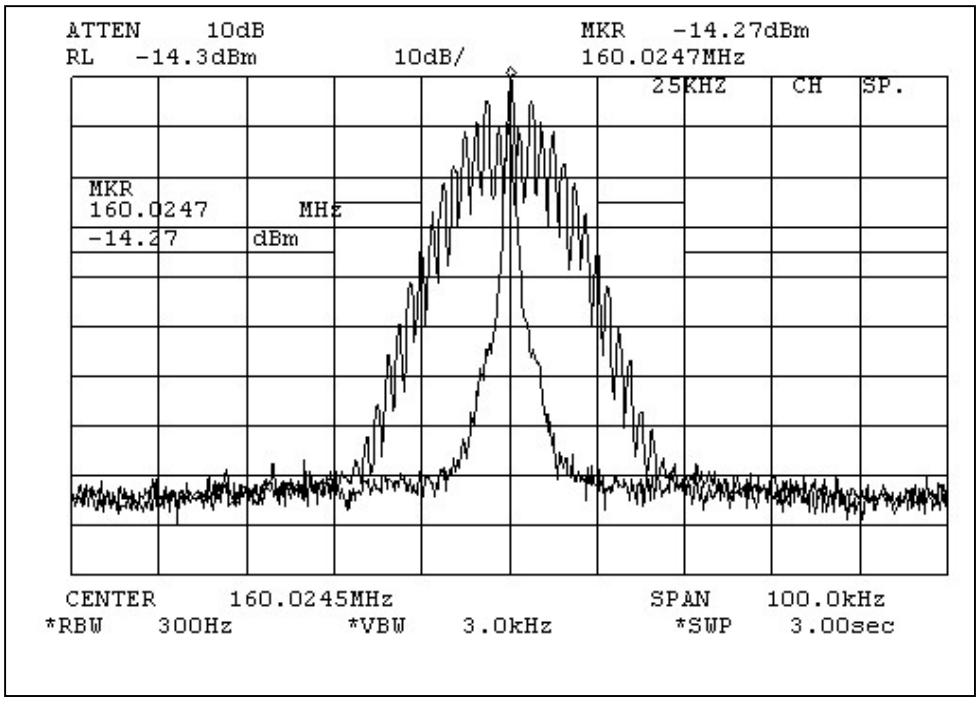

Figure 6E-12: 25 KHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation

EXHIBIT 6F – Conducted Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

Note: Red line on graphs correspond to the FCC limit of –13dBm.

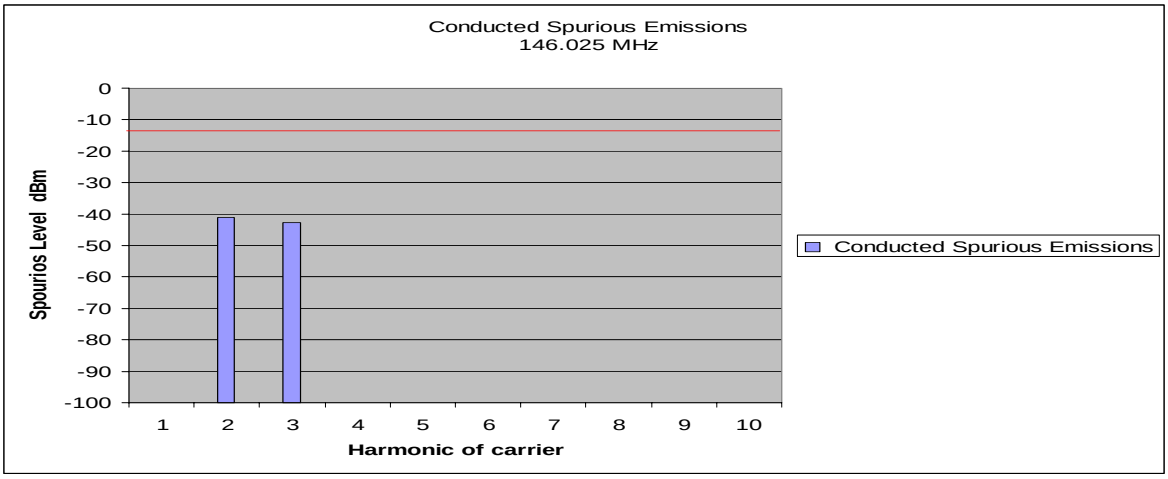

Figure 6F-1: 28 Watts, 146.025 MHz

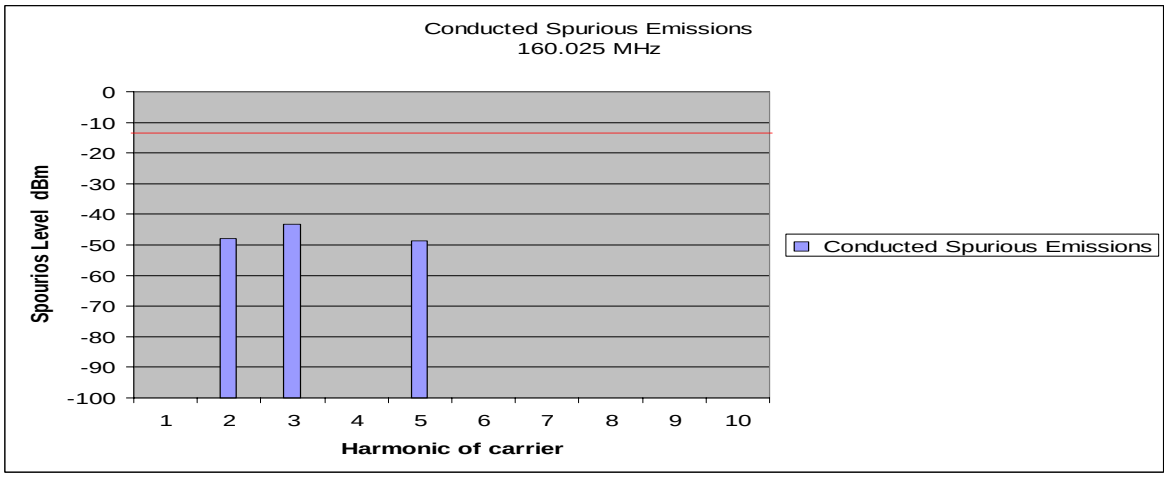

Figure 6F-2: 28 Watts, 160.025 MHz

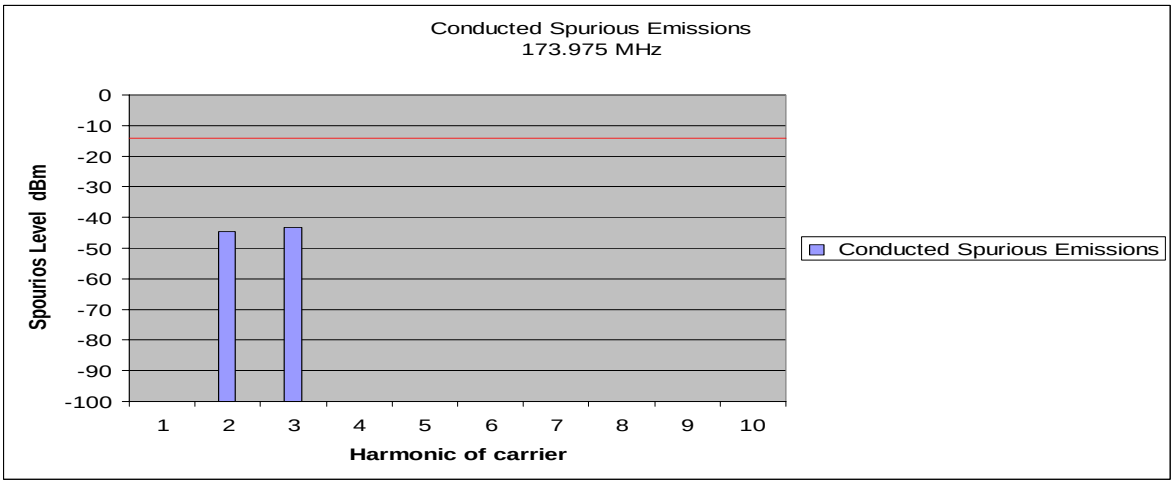

Figure 6F-3: 28 Watts, 173.975 MHz

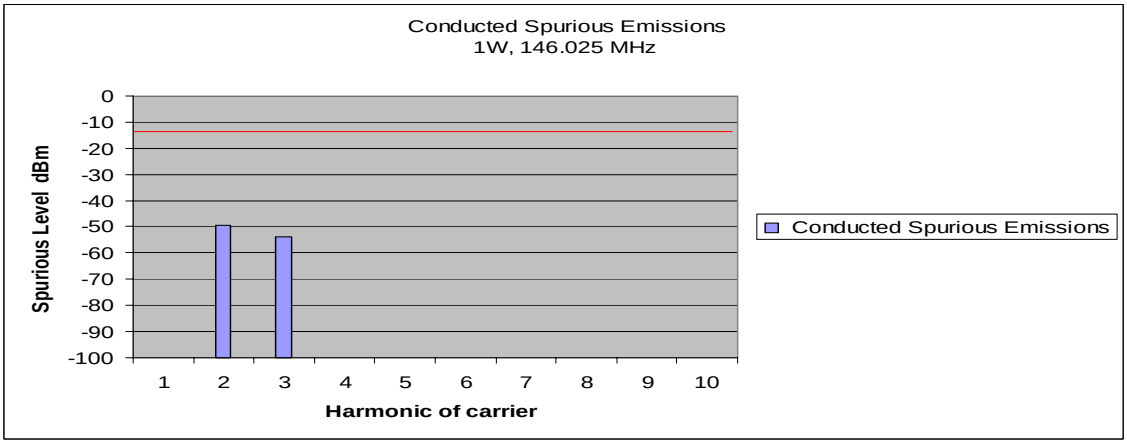

Figure 6F-4: 1 Watt, 146.025 MHz

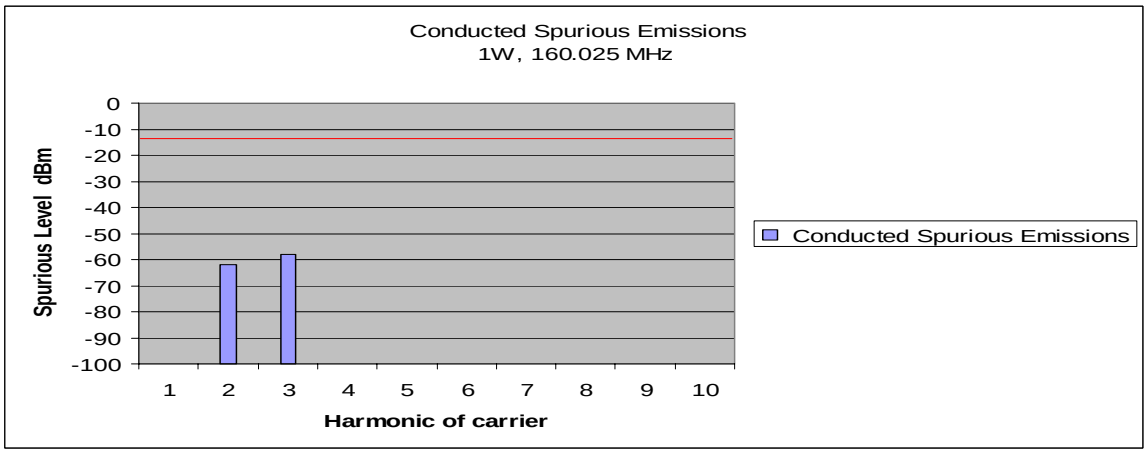

Figure 6F-5: 1 Watt, 160.025 MHz

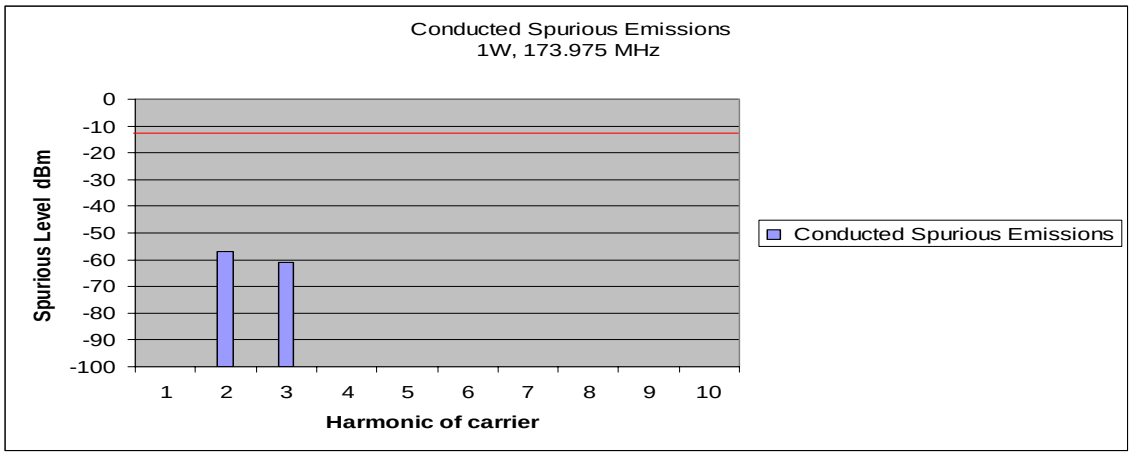

Figure 6F-6: 1 Watt, 173.975 MHz

EXHIBIT 6G – Radiated Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

Notes: 1) The shown results are the worst case results for the given frequency. Measurements were made to

the 10th harmonic, antenna polarization horizontal and vertical.

2) The margin[dB] is the amount in dB below the FCC specification limit of –13dBm(red line on graph)

Carrier Frequency 146 MHz, High Power (28 Watts)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
292	39.2	-62.6	0.4	-0.3	-63.3	107.8	57.47	50.3
438	32.8	-68.1	0.5	-1	-69.6	114.1	57.47	50.6

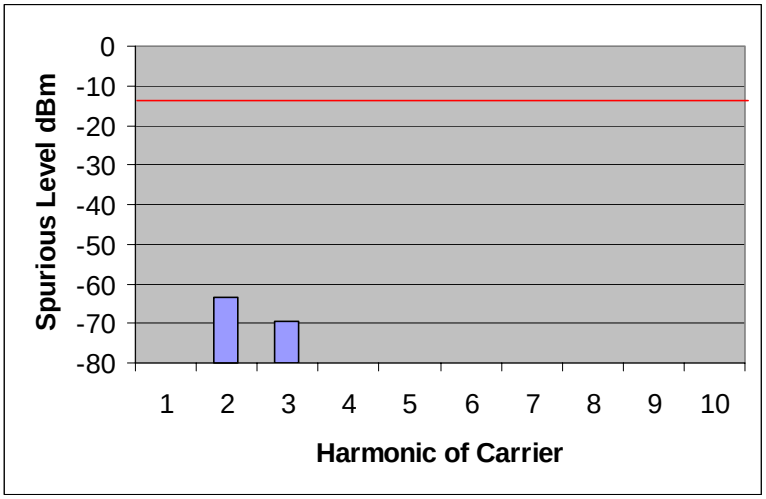

Figure 6G-1: 28 Watts, 146 MHz

Carrier Frequency 160 MHz, High Power (28 Watts)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
320	45.7	-56.4	0.4	-0.3	-57.1	101.6	57.47	44.1
480	43.8	-57.7	0.5	-1.8	-60.0	104.5	57.47	47.0

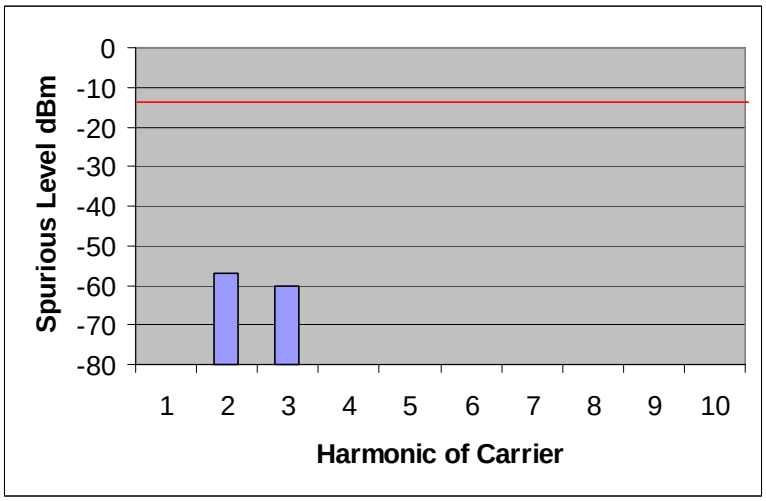

Figure 6G-2: 28 Watts, 160 MHz

Carrier Frequency 174 MHz, High Power (28 Watts)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
348	52.9	-49.3	0.5	-0.3	-50.1	94.6	57.47	37.1
522	37.7	-61.7	0.5	-1.5	-63.7	108.2	57.47	50.7
696	39.6	-62.2	0.7	0.4	-62.5	107.0	57.47	49.5

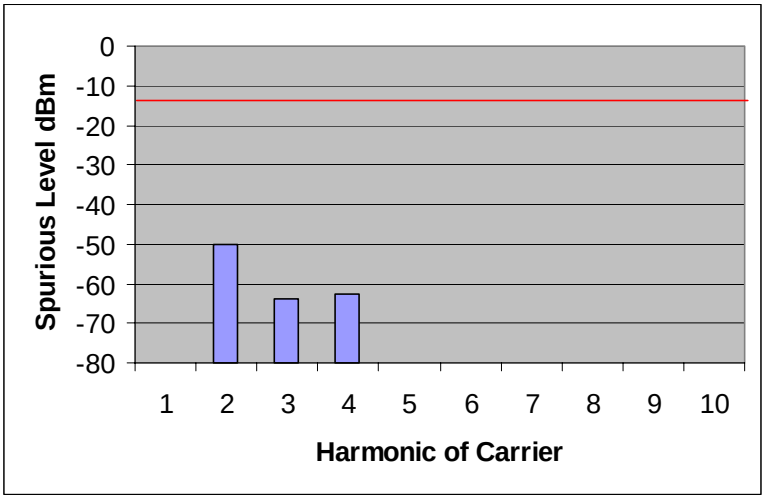

Figure 6G-3: 28 Watts, 174 MHz

Carrier Frequency 146 MHz, Low Power (1 Watt)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
292	30.8	-71.0	0.4	-0.3	-71.7	101.7	43	58.7
438	30.4	-70.5	0.5	-1	-72.0	102.0	43	59.0

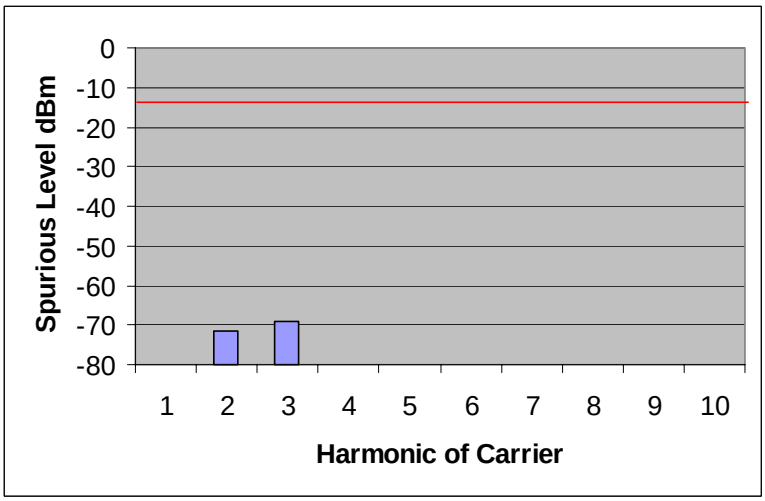

Figure 6G-4: 1 Watt, 146 MHz

Carrier Frequency 160 MHz, Low Power (1 Watt)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
320	36.9	-65.2	0.4	-0.3	-65.9	95.9	43	52.9
480	34.1	-67.4	0.5	-1.8	-69.7	99.7	43	56.7

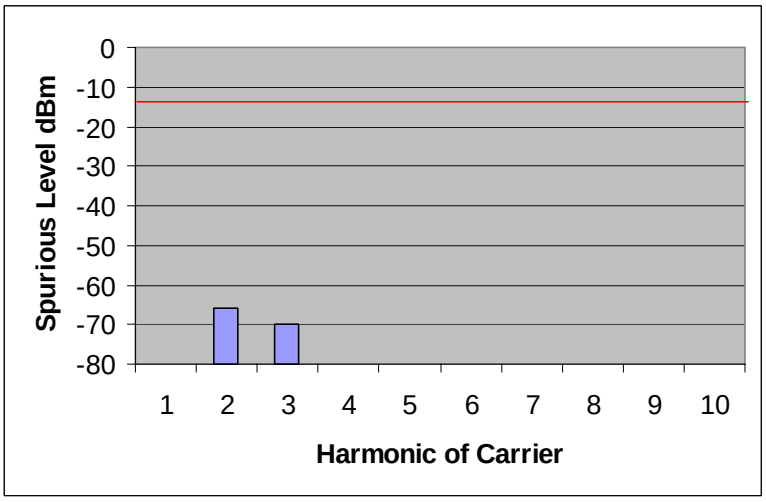

Figure 6G-5: 1 Watt, 160 MHz

Carrier Frequency 174 MHz, Low Power (1 Watt)

Frequency [MHz]	Radiated Measured Result, dB(uV/m)	Generator Pout dBm	Cable Loss dB	Antenna Gain dBd	Dipole equivalent power dBm	Attenuation dBc	Limit dBc	Margin [dB]
348	38.1	-64.1	0.5	-0.3	-64.9	109.4	43	66.4
522	30.2	-69.2	0.5	-1.5	-71.2	115.7	43	72.7
696	32.5	-69.3	0.7	0.4	-69.6	114.1	43	71.1

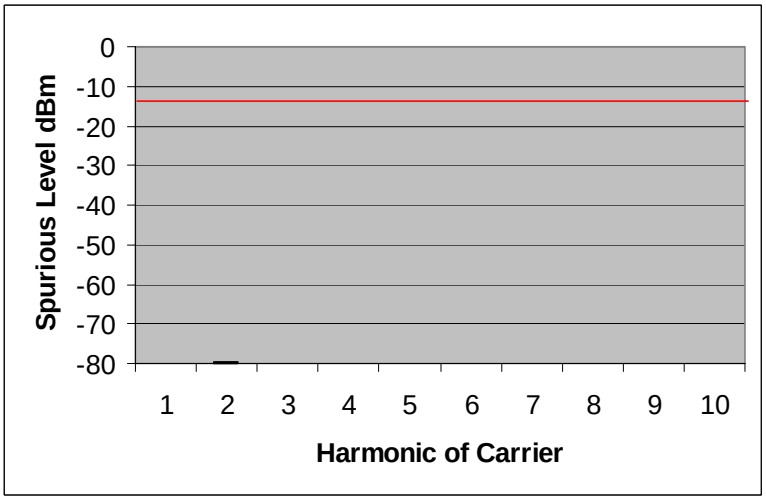

Figure 6G-6: 1 Watt, 174 MHz

EXHIBIT 6H – Frequency Stability - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

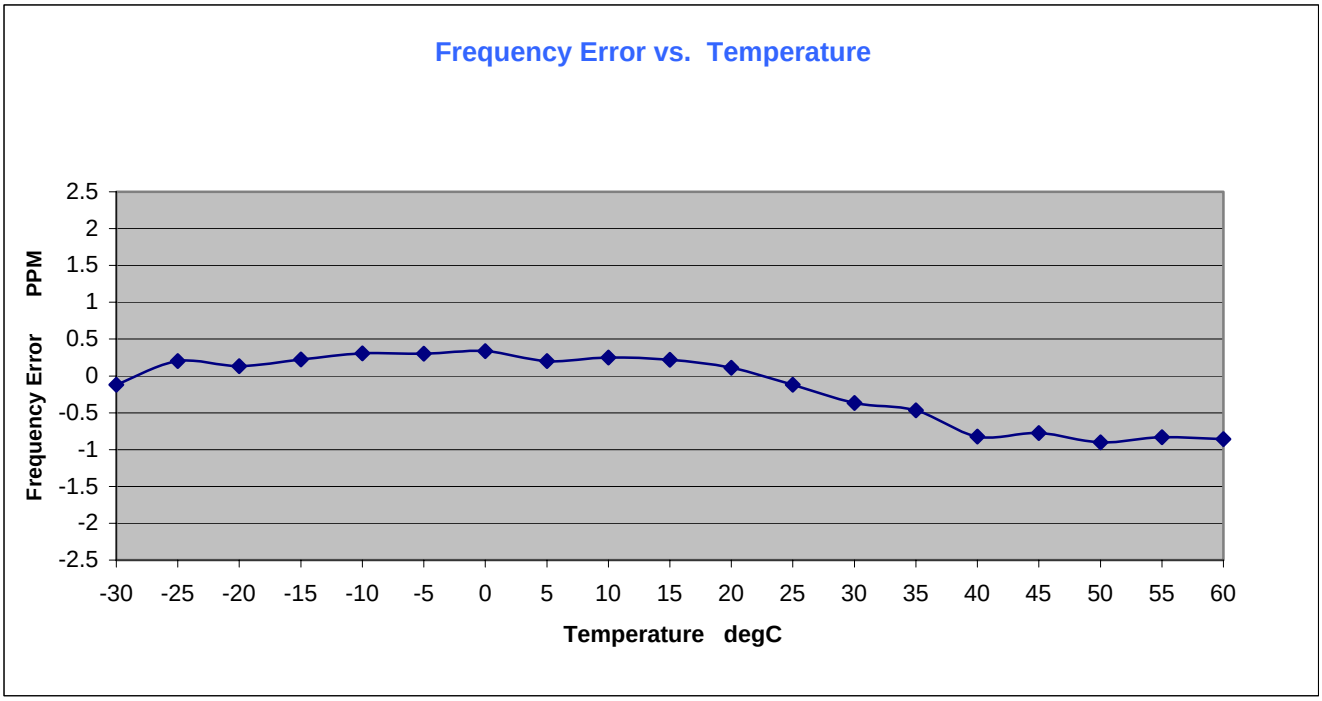

Figure 6H-1: Frequency Stability vs. Temperature

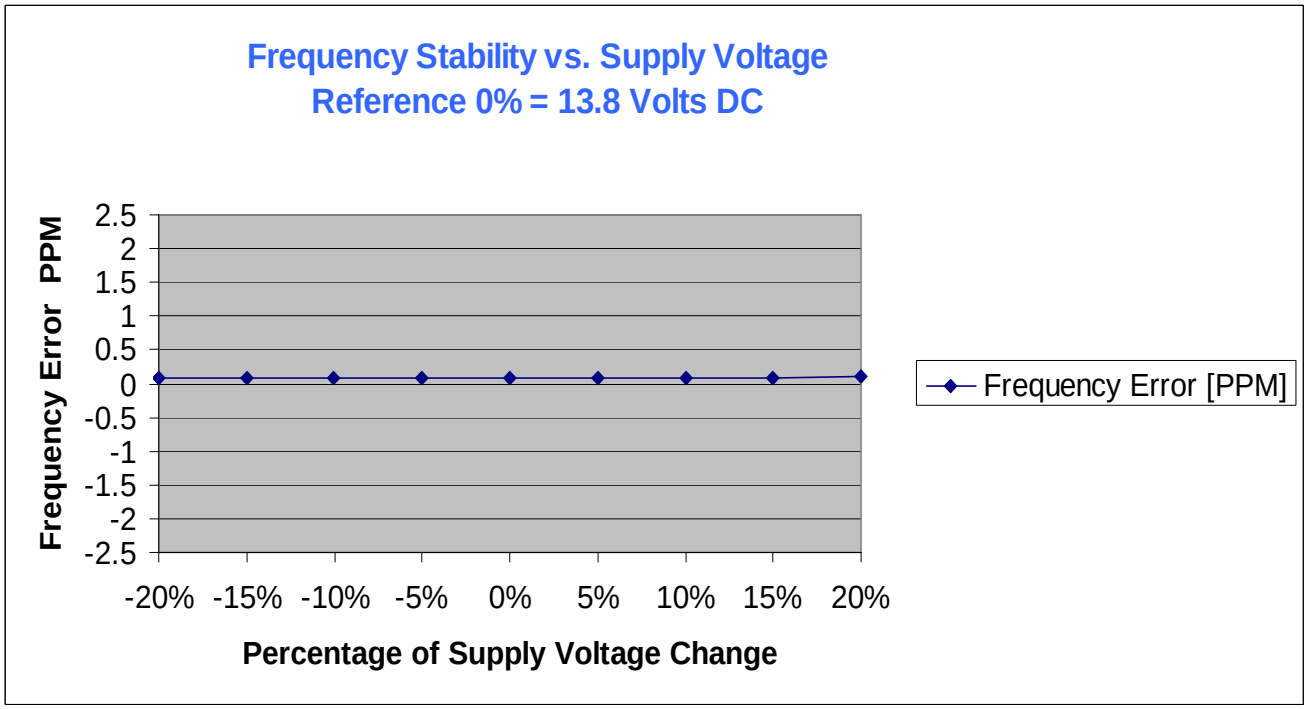

Figure 6H-2: Frequency Stability vs. Supply Voltage

EXHIBIT 6I – Transient Frequency Behavior
Note: Measurement made at 160.025 MHz

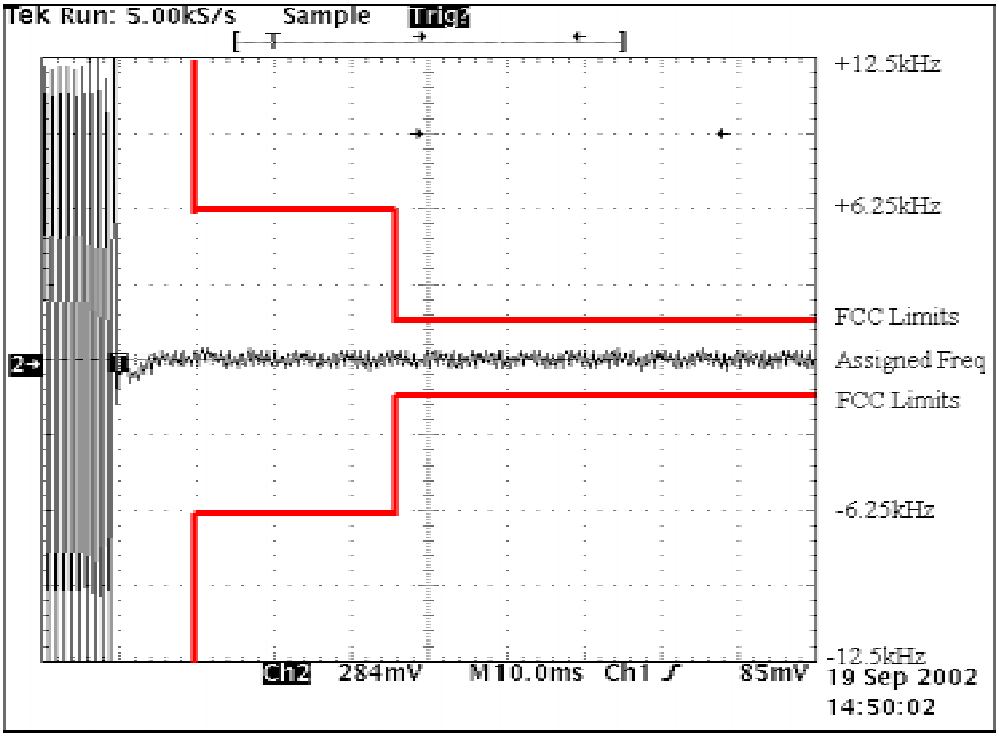

Figure 6I-1: 28 Watts, 12.5 KHz Key-Up Attack Time

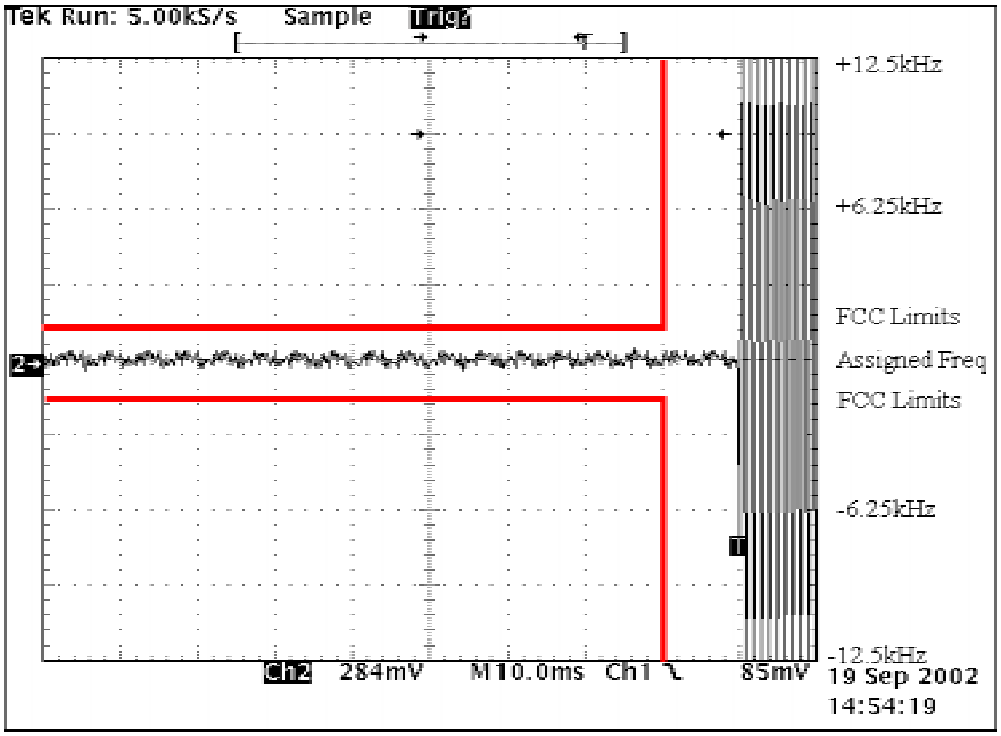

Figure 6I-2: 28 Watts, 12.5 KHz De-Key Decay Time

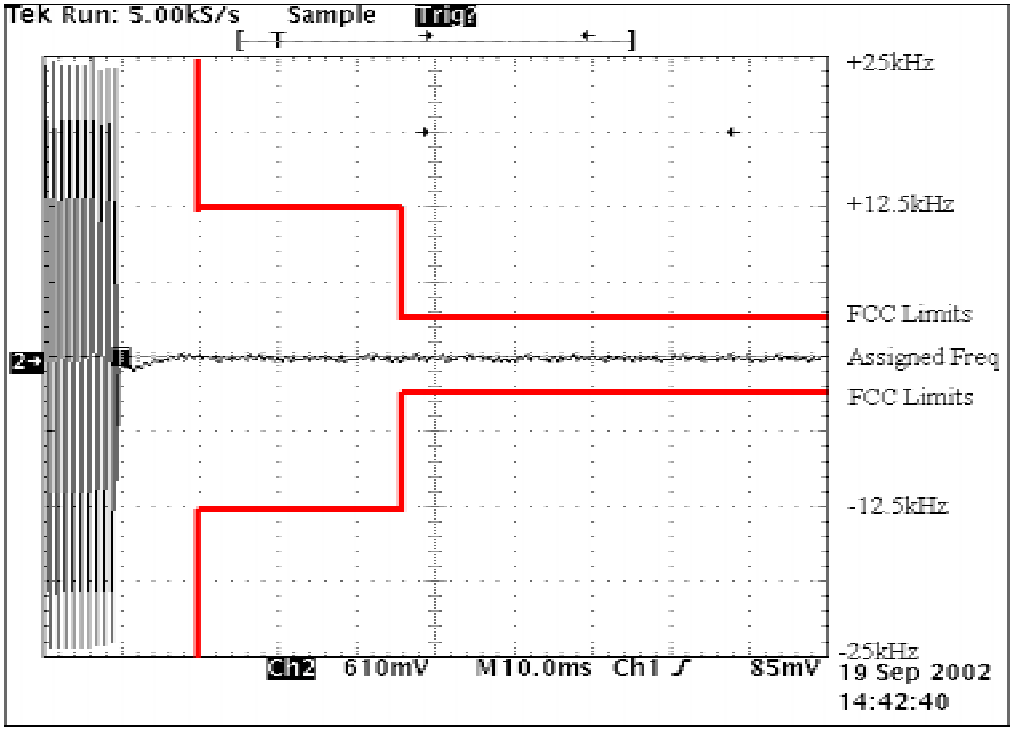

Figure 6I-3: 28 Watts, 25 KHz Key-Up Attack Time

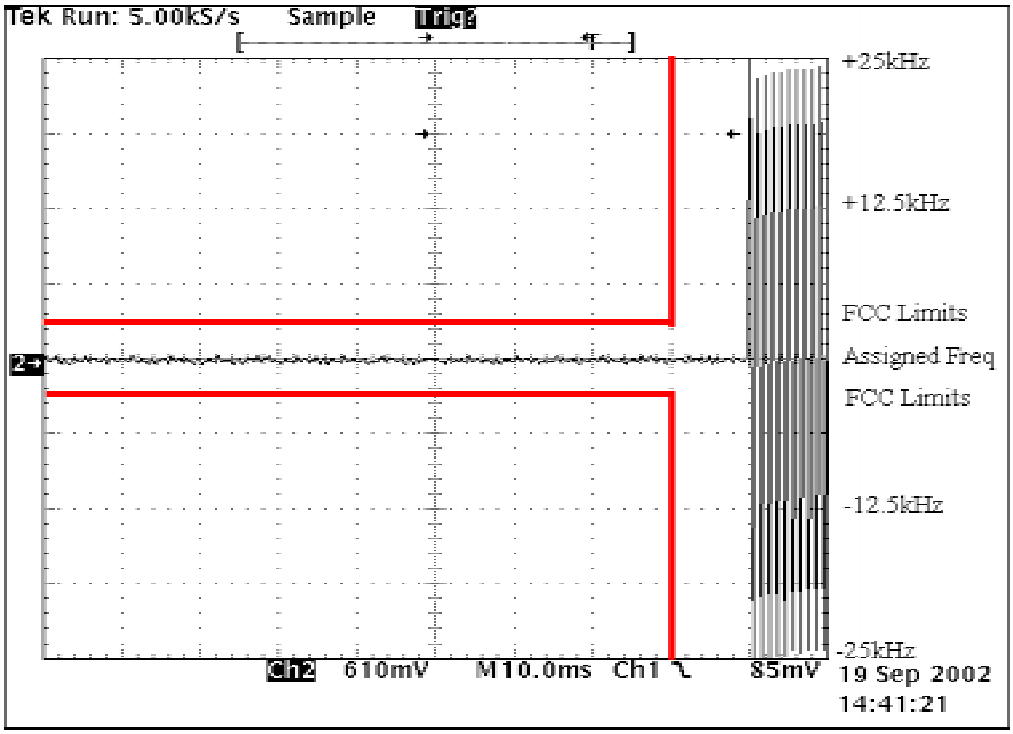

Figure 6I-4: 28 Watts, 25 KHz De-Key Decay Time

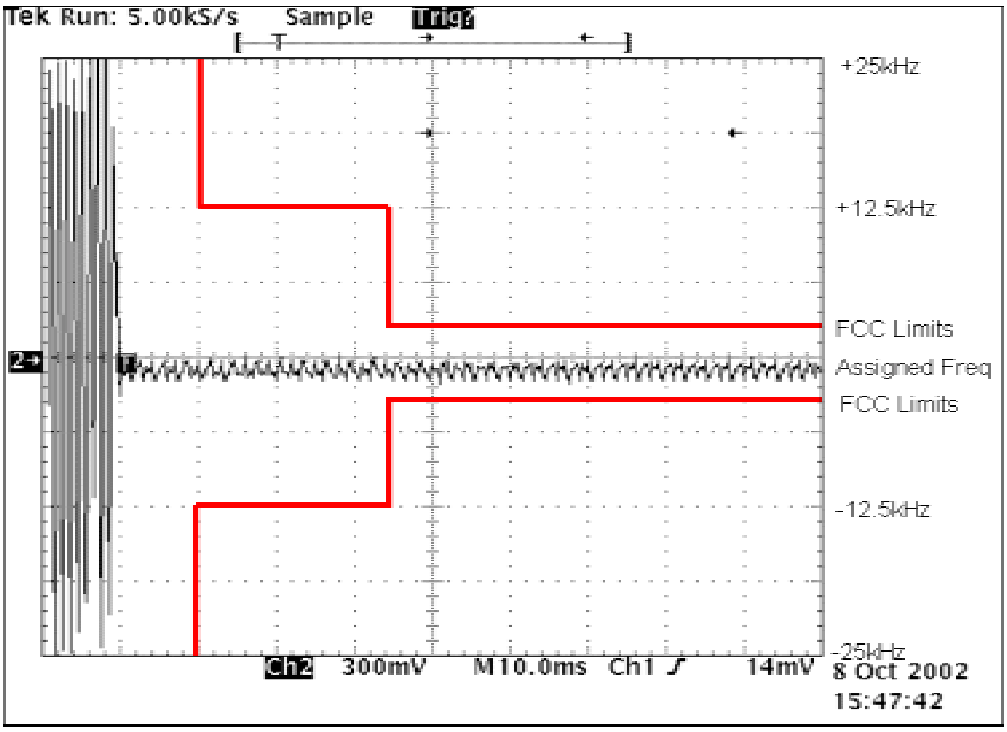

Figure 6I-5: 1 Watt, 12.5 KHz Key-Up Attack Time

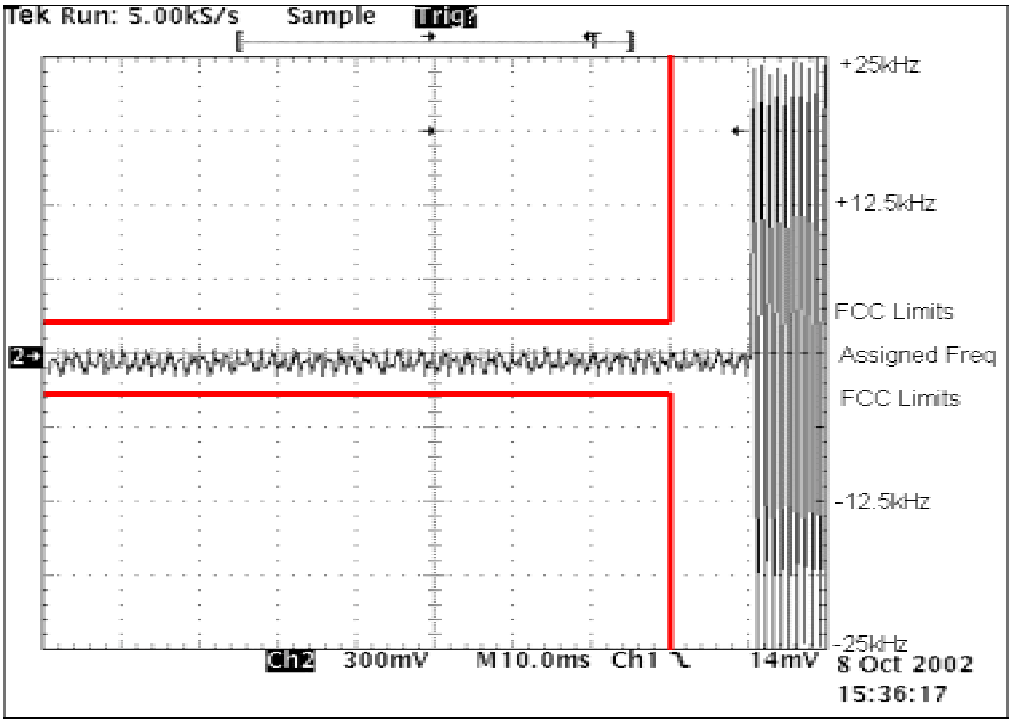

Figure 6I-6: 1 Watt, 12.5 KHz De-Key Decay Time

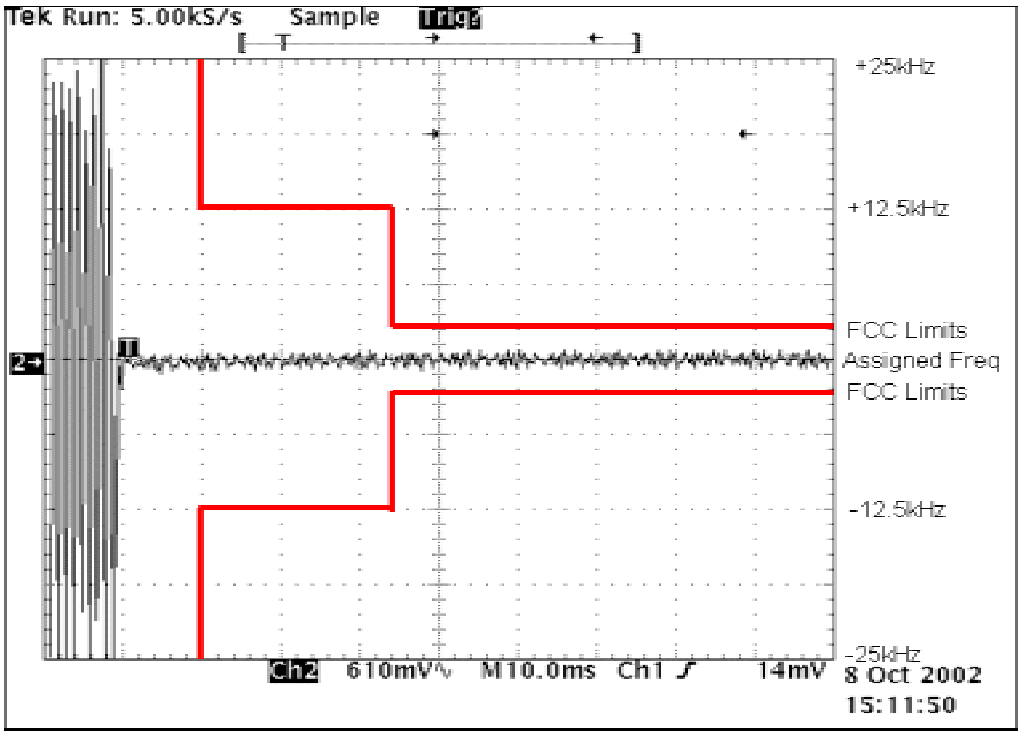

Figure 6I-7: 1 Watt, 25 KHz Key-Up Attack Time

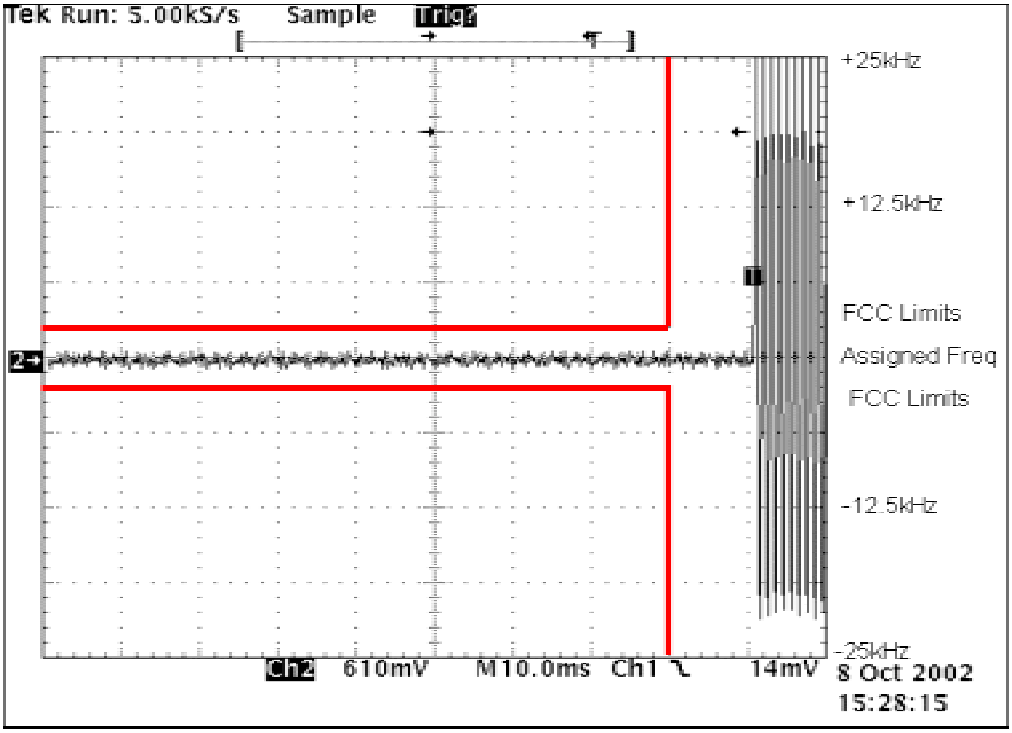

Figure 6I-8: 1 Watt, 25 KHz De-Key Decay Time